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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/621,710	07/17/2003	Ram Raghavan		1535	
21269 75	590 12/14/2004		, EXAM	INER	
PEPPER HAN		MARCHESCHI, MICHAEL A			
ONE MELLON CENTER, 50TH FLOOR 500 GRANT STREET			ART UNIT	PAPER NUMBER	
PITTSBURGH,	, PA 15219		1755	1755	
		•	DATE MAILED: 12/14/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Apı	plication No.	Applicant(s)			
	1	/621,710	RAGHAVAN ET AL.			
Office Action Summa	ary Exa	aminer	Art Unit			
	Mic	hael A Marcheschi	1755			
The MAILING DATE of this co Period for Reply	ommunication appears	on the cover sheet wit	h the correspondence address			
A SHORTENED STATUTORY PER THE MAILING DATE OF THIS COM  Extensions of time may be available under the pafter SIX (6) MONTHS from the mailing date of  If the period for reply specified above is less tha  If NO period for reply is specified above, the ma  Failure to reply within the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.	MMUNICATION.  provisions of 37 CFR 1.136(a). Ithis communication.  In thirty (30) days, a reply within ximum statutory period will appled for reply will, by statute, cause months after the mailing date o	In no event, however, may a re the statutory minimum of thirty ly and will expire SIX (6) MONT the application to become ABA	ply be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication.			
Status						
1) Responsive to communication	n(s) filed on .					
2a) This action is FINAL.	2b)⊠ This actio	on is non-final.				
3) Since this application is in cor	ince this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the						
Disposition of Claims						
4)⊠ Claim(s) <u>1-15</u> is/are pending i	n the application					
4a) Of the above claim(s)	• •	om consideration	-			
5) Claim(s) is/are allowed		in consideration.				
6)⊠ Claim(s) <u>1-15</u> is/are rejected.			*			
7) Claim(s) is/are objected	d to	•				
8) Claim(s) are subject to		tion requirement				
		aon roqui omoni.				
Application Papers						
9) The specification is objected to						
10) The drawing(s) filed on						
Applicant may not request that ar		=	• •			
Replacement drawing sheet(s) inc	cluding the correction is a	required if the drawing(s)	) is objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is obje	cted to by the Examine	er. Note the attached (	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a a)☐ All b)☐ Some * c)☐ None		ty under 35 U.S.C. § 1	19(a)-(d) or (f).			
<ol> <li>Certified copies of the p.</li> </ol>	riority documents have	e been received.				
2. Certified copies of the p						
			eceived in this National Stage			
application from the Inte						
* See the attached detailed Office	e action for a list of the	certified copies not re	ceived.			
Attachment(s)		•				
Notice of References Cited (PTO-892)		4) 🔲 Interview Sun	nmary (PTO-413)			
<ul> <li>Notice of Draftsperson's Patent Drawing Rev</li> <li>Information Disclosure Statement(s) (PTO-1 Paper No(s)/Mail Date 7/13/03, 12/29/03.</li> </ul>	view (PTO-948) 449 or PTO/SB/08)	Paper No(s)/N	Mail Date rmal Patent Application (PTO-152)			
5. Patent and Trademark Office FOL-326 (Rev. 1-04)	Office Action Su	mmary	Part of Paper No./Mail Date 20041209			

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as obvious over Tank et al. (268).

Tank et al. teach in the entire document, a method for making a metal carbide supported diamond compact which comprises the claimed steps and uses a mixture of coarse and fine diamonds. The amounts and size of the diamonds are defined.

The reference teaches a method which reads on the claimed method because (1) the claimed method steps are disclosed and (2) the reference teaches the use of a mixture of coarse and fine diamonds, the amounts and size of the diamonds are defined and within the claimed range. In view of this, the subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, see *In re Malagari*, 182 U.S.P.Q. 549; *In re Wertheim* 191 USPQ 90 (CCPA 1976)".

Claims 1-15 are rejected under 35 U.S.C. 103(a) as obvious over Corrigan et al. (675).

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Corrigan et al. teach in column 4, line 37-column 6, line 68 and the claims, a method for making a metal carbide supported diamond compact which comprises the claimed steps and uses a mixture of coarse and fine diamonds. The amounts and size of the diamonds are defined.

The reference teaches a method which reads on the claimed method because (1) the claimed method steps are disclosed and (2) the reference teaches the use of a mixture of coarse and fine diamonds, the amounts and size of the diamonds are defined and within the claimed range. In view of this, the subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, see *In re Malagari*, 182 U.S.P.Q. 549; *In re Wertheim* 191 USPQ 90 (CCPA 1976)". With respect to the time limitation, although this reference is silent with respect to this feature, it is the examiners position that this aspect would have been obvious to the skilled artisan in order to produce the desired compact.

In the rejections above, assuming arguendo about the process steps, applicants use process limitations to define the product and "product-by-process" claims do not patentably distinguish the product even though made by a different process. *In re Thorpe* 227 USPO 964.

In view of the teachings as set forth above, it is the examiners position that the references reasonably teach or suggest the limitations of the rejected claims.

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"A reference is good not only for what it teaches but also for what one of ordinary skill might reasonably infer from the teachings. In re Opprecht 12 USPQ 2d 1235, 1236 (CAFC 1989); In re Bode USPQ 12; In re Lamberti 192 USPQ 278; In re Bozek 163 USPQ 545, 549 (CCPA 1969); In re Van Mater 144 USPQ 421; In re Jacoby 135 USPQ 317; In re LeGrice 133 USPQ 365; In re Preda 159 USPQ 342 (CCPA 1968)". In addition, "A reference can be used for all it realistically teaches and is not limited to the disclosure in its preferred embodiments" See In re Van Marter, 144 USPQ 421.

Evidence of unexpected results must be clear and convincing. *In re Lohr* 137 USPQ 548. Evidence of unexpected results must be commensurate in scope with the subject matter claimed. *In re Linder* 173 USPQ 356.

The references cited on the 1449 have been reviewed by the examiner and are considered to be art of interest since they are cumulative to or less than the art relied upon in the above rejections.

Any foreign language documents submitted by applicant has been considered to the extent of the short explanation of significance, English abstract or English equivalent, if appropriate.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael A Marcheschi whose telephone number is (571) 272-1374. The examiner can normally be reached on M-F (8:00-5:30) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark L Bell can be reached on (571) 272-1362. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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